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EMISSIVE IMAGE DISPLAY APPARATUS

*This Application is a con of 10/112,837
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I. Field Of The Invention

The present invention relates generally to image displays.

II. Background Of The Invention

5 Image displays include emissive displays, such as phosphor displays used
in cathode tube-based television and computer monitors, and transmissive
displays, such as projection displays used for large screen TVs. An emissive
display works by emitting visible light from pixels that are excited by, e.g., electron
beams or fluorescent lamps. In the case of conventional electron beam-based
10 displays, the electron beam is scanned across the pixels as appropriate to excite
the pixels to produce a demanded image. In the case of fluorescent lamp-based
displays such as plasma displays, ultraviolet light from a gas discharge is directed
to appropriate pixels that are physically shielded from each other, with the pixel
illumination pattern necessary to produce the demanded image not being
15 established by scanning the UV light, which is simply a discharge from the lamp,
but by appropriately blocking the UV light to impinge only on the desired pixels.
Both of the above-mentioned emissive displays require the presence of a vacuum
within the device, which can complicate manufacturing and raise costs.

Because the weight of some emissive displays becomes infeasibly large in
20 the case of large screen displays, e.g., displays having sizes of 40"-60" or more,
the above-mentioned transmissive displays have been provided, an example of